

## PUTS THIS CITY IN FOREFRONT

Southern Precipitation Company Organized by P. J. Kruesi and Others.

## WALDO COMING HERE

Interests Allied With Those Behind Southern Ferro-Alloys and Electro-Metals.

Chattanooga's development as the electrochemical center of the south received an impetus today which will go far towards making its pre-eminence absolutely undisputed when an application for a charter for the Southern Precipitation Precipitation company was filed. The new company asks for a charter for a \$1,000,000 corporation.

Interests behind the new company are virtually the same as those behind the industry which first placed Chattanooga upon the electrochemical map—the Southern Ferro-Alloys company and its allied company on Boyce-Alloys company.

Added to these interests, however, is Prof. Willis G. Waldo, formerly of Vanderbilt university, but better known as the man whose research and enthusiasm made the Muscle Shoals project an accomplished fact. For many years Col. J. W. Worthington has preached the Muscle Shoals doctrine, and when Prof. Waldo's efforts were joined to his, the combination proved effective enough to bring the project and the immense nitrate plants and dams down at Sheffield and Florence.

When the charter is returned from Nashville, Prof. Waldo will be elected president and general manager; P. J. Kruesi and Morrow Chamberlain, vice-presidents; C. H. Huston, treasurer, and John S. Fletcher, secretary. These incorporators will also comprise the board of directors. Mr. Kruesi is president of the Southern Ferro-Alloys company.

Headquarters of the company will be kept in this city and offices will be established next week.

The company has acquired a considerable amount of land, including the so-called Cottrell process for precipitating and recovering matter suspended in gases and smoke from industrial plants, especially in chemical and metallurgical lines.

This process is an electrical one, invented by P. G. Cottrell, who has a well-known cement plant where he is in charge of the government bureau of mines at Washington and who is still the chief technical expert of that department. Mr. Cottrell himself is an engineer and chemist of most remarkable attainments. When his special invention was perfected and patented, he gave it to the government, and the government placed the patent in the hands of an organization known as The Research Corporation, with provision for the profits and expenses of the corporation to be shared by the government and the corporation.

In the brief period of some two or three years, since the invention of the process, it has covered an area of an exceedingly wide range, there having been about 150 installations in various sections of this country. Two noteworthy installations are in the south, one at Ducktown, for the recovery of sulphuric acid in the copper refining plant at that place and another at the house cement plant where an element recovered is potash. Both have made notable contributions toward the winning of the war, and the value and importance of potash and sulphuric acid, but both have a still larger part to play in the enhancement of profits and the saving of the waste which heretofore represented an economic waste. It has been stated that the value of the sulphuric acid produced by this process at Ducktown exceeded in 1918 the profit on the copper produced and case of the government company its profits for the potash recovered exceeded its profits for the manufacture of its original product. Contract for First Installation.

The plant of the local company include the erection at various points in

Tennessee, Alabama, Virginia and Georgia, of the necessary equipment for the recovery of sulphuric acid from the waste gas of the chimney or stack. Its first installation will be in Tennessee, where a plant is being erected for the recovery of sulphuric acid from a blast furnace located at Rockdale, near Columbus. The plant is producing a steel alloy known as ferro-phosphorus, which is made from adjacent iron ores and phosphate rock, the resulting product containing about 80 per cent. phosphorus. The alloy mentioned is in great demand in the manufacture of tin and about thirty tons of it are produced daily. But the owners and operators of the furnace have been shown that potentialities in the waste gas and have therefore contracted with the local parties for the erection at their expense of a plant to recover the phosphoric acid now going to waste.

Negotiations have also been all but consummated for installation of another plant at the same place for the recovery of potash. As rapidly as each of such plants can be built and turned over to an operating force, the Southern Precipitation company will tackle new problems such as the manufacture of sulphuric acid from zinc plants, in each case the by-product from start to finish; overseeing the manufacture, storage, and distribution and by contract and license arrangements share the profit with the owners of the plant making the original product. In short, the new company will not erect and sell the electrical precipitation plants outright, but will install them and operate them indefinitely.

Thus, in the course of time, it may reasonably be expected that the headquarters at Chattanooga will comprise a considerable office, consisting of engineers and operating force, while the sales department will make Chattanooga a headquarters for a unique variety of products needed in the chemical and fertilizer trades.

Professor Waldo Coming Here. Prof. Waldo, who will devote all of his time to the enterprise, will move to this city with his family on Sunday. He is no stranger to Chattanooga. As instructor of mathematics and applied mechanics at Vanderbilt university, in Nashville, he was persuaded by the men in charge of Tennessee's development to leave his position at Vanderbilt and come to Chattanooga. Underwood, the late John A. Patton and C. H. Huston, to lend his brilliant engineering talents to the Muscle Shoals project, through the intervention of leading business men of Nashville and the south, the trustees of Vanderbilt university accorded him a leave of absence to come to Chattanooga. The technical data with respect to the utilization of the nearly 600,000 horsepower now going to waste on the Tennessee river, this task occupied his entire time for upward of a year. In which period he wrote the now famous Muscle Shoals brief, which resulted in the government's expenditure already of more than \$60,000,000 on the two nitrate plants near Sheffield.

How It Happened. Long since attracted by the "Chattanooga spirit" and the desire to enter commercial life in some line where more blades of grass could be made, he had been growing already. Dr. Waldo had grown enthusiastic over the possibilities of the application of the Cottrell process to the industry of this section and on New Year's day presented to his friends here the prospectus on which the new organization is being organized. Two hours the capital was pledged, attorneys employed to arrange for the incorporation and negotiations, based on previously acquired patent licenses, were started with J. J. Gray of Columbia, Thursday evening these negotiations were consummated and the engineering lay-out for the process was completed. The Cottrell process for the reason that he has long endeavored to interest Dr. Cottrell in increased government activities of the bureau of mines in this district. Dr. Cottrell, who visited Chattanooga last spring on the trip of the American Electrochemical society, is, however, no longer active in connection with the adaptation of his process to commercial use, having patriotically donated it to the government. He has explained, receives a royalty from each installation.

WANT RAILROADS BACK  
Manufacturers' Ask Return to Private Ownership.  
A letter relative to the operation of the railroads has been turned over to private ownership again has been drafted by President D. H. Wood of the Chattanooga Manufacturers' association. This letter, on behalf of the members of the association, will be sent to the Tennessee congressmen and senators with the urgent request that they make an effort to get congress to return the railroads to private ownership. Practically all of the members of the association have expressed themselves as being opposed to the government operating the railroads beyond the time that has already been provided for. They believe that now that the war is over that it is time for them to come out with a frank statement of their opinion.

As long as there was war and the railroads had to be given over to the government, the shippers in the industrial world in Chattanooga stood behind the United States railroad administration, but now the tollowing appeal has been drafted and will be forwarded to the Tennessee representatives at once.  
January 2, 1918.  
Dear Sir:  
At the recent meeting of the board of governors of the Chattanooga Manufacturers' association, the undersigned was instructed to send the following communication:

Congress has expressly declared the government operation of railroads to be a war emergency measure. The occasion and necessity for this government operation ended with the surrender of the enemy. It is our firm conviction that government operation of railroads should be abandoned and roads returned to their owners at the earliest possible moment, that same can be done without injustice to the public and owners of the roads.

We are opposed to the government operation beyond the maximum time now provided in the federal control act. We urge you to assist the public by the prompt passage of a law for the return of railroads to private operation under government regulation permitting their operation as a unit so far as possible under government control.

We also favor the repeal of the Sherman act insofar as it effects the operation of railroads.

Yours very truly,  
D. H. WOOD,  
President.

CONTEST OVER ALASKAN  
House to Discuss Seating of Congressional Delegate.  
Washington, Jan. 3.—The long-pending contest over the seating of a congressional delegate from Alaska was expected to first engage the attention of the house today, but body reconvened today, Representative Riley J. Wilson, democrat of Louisiana, chairman of the house elections committee, number one, announced.

Although the democrats on the committee outnumber the republicans six to three, the committee will recommend the seating of James Wickersham, republican, instead of Charles A. Sulzer, democrat, as Alaskan delegate, Wilson stated.

STEAMSHIP WRECKED  
Quantic Caught in Typhoon off Tablas Island.  
Manila, Jan. 3.—The 306-ton American steamship Quantic was wrecked today in a typhoon off Tablas Island, 175 miles southeast of Manila.

## COLD SCHOOLS AT CHATTANOOGA HIGH

HEATING SYSTEM NOT AD-EQUATE FOR WEATHER.

Annex in Even Worse Shape. Coal Used Said to Be of Inferior Quality.

Corn was found growing in the coal stored away in the basement of the Chattanooga High school upon a visit of a reporter to the building Friday morning. It is also understood that there is a good crop of corn growing in the supply of coal in the basement of the Second District school building. The corn found at the Chattanooga High has nice long roots and it appears to be well and healthy, even though it took root in a coal bed.

A number of complaints have been made recently by pupils attending the public schools relative to the poor heating system used in their respective schools. The poor grade of coal, a sample of which was seen at the high school, was found to be nothing more than coal dust, and it is understood that this quality is used throughout all of the schools in the city. The janitors state that it is impossible to heat the buildings unless they are right at the door of the furnaces continually shoveling in coal, owing to the inferior quality of coal.

The heating at the Chattanooga High school appeared to be especially inadequate, as the visit throughout the rooms Friday found most of the girls with their heads on and in many cases grouped around the radiators trying to get warm. W. T. Robinson, principal of the school, escorted the reporter through the building, going from room to room. In some rooms the thermometer was not quite at sixty and in others it was as high as sixty-eight.

There was no possible way to ventilate the rooms other than that of raising the windows right to one side of a long row of desks. In one of the rooms the principal called the reporter's attention to a vent in the ceiling, which was closed by a system arranged for letting in warm air and drawing out the cold air. With this the teacher turned to the reporter and pointed to the window with the remark that there was a very good place for ventilation, too, meaning that it wasn't very comfortable at her desk on a cold day, as it was right by the window.

Mr. Robinson was frank in saying that the heating system, as the high school is very poor, being far from what it should be, and that the ventilation arrangement is just made to be. When the rooms are finally heated, it is necessary for all doors and windows to be kept closed tight in order to keep the warm air in. The doors and windows are opened and the thermometer begins to run down, as the halls are much colder than the rooms, with a continuous draft passing through them.

When the noon hour was announced Friday morning while the reporter was at the high school, the girls who had been sitting in the building with their coats on had to go right out in the open air without any additional wraps. But the remark that there was a very good place for ventilation, too, meaning that it wasn't very comfortable at her desk on a cold day, as it was right by the window.

Disappointed Annex. The building adjacent to the high school proper that is being used for a high school annex in a much dilapidated condition and the heating in this is much less adequate than in the main building. It is an old house that has been converted into a school. The building is heated by a hot water system and radiators, and if it were not for the grade in the house it would be absolutely heatless. As one of the teachers remarked, one would have to hold his hand over one of the radiators for an hour to discover any heat that might be in it. In the room that was formerly used for a parlor, the plastering on the wall is practically all off on one side and the teacher stated that she had thirty-one pupils in this room. There are three windows in there and one door, all of which are kept closed tight all winter. In one of the back rooms upstairs practically the same condition exists. There is a class of twenty-seven pupils in this room, which is somewhat smaller than the room downstairs. This has made it impossible for the pupils to be jammed together, the chairs being so close together that one would think that they were made attached, each to the one next to it.

Perhaps the coldest place in the building is the gymnasium, which is the only room in the building that is not heated. It is an old house that has been converted into a school. The building is heated by a hot water system and radiators, and if it were not for the grade in the house it would be absolutely heatless. As one of the teachers remarked, one would have to hold his hand over one of the radiators for an hour to discover any heat that might be in it. In the room that was formerly used for a parlor, the plastering on the wall is practically all off on one side and the teacher stated that she had thirty-one pupils in this room. There are three windows in there and one door, all of which are kept closed tight all winter. In one of the back rooms upstairs practically the same condition exists. There is a class of twenty-seven pupils in this room, which is somewhat smaller than the room downstairs. This has made it impossible for the pupils to be jammed together, the chairs being so close together that one would think that they were made attached, each to the one next to it.

LOCAL FLASHES  
Prof. Schoen Here.  
Prof. M. Schoen, professor of music in the Tennessee State Normal institute at Johnson City, passed through the city Friday on his way back to school. Prof. Schoen was formerly connected with the Chattanooga High school of this city.

Proud Stepfather.  
Sam Burns, head janitor at the Municipal building, is a proud stepfather. His two stepsons, Charley and Henderson Gary, went to France to do their bit for the cause of world democracy and came through much heavy fighting without a scratch, although they went "over the top" several times. Sam claims that as a record to be proud of, and letters from the boys are always a happy event for him. Sam recently entered upon another matrimonial journey, and his wife, Laura Burns, is spending the Christmas holidays with her daughter, Lila Ramsey, in Cincinnati.

Time Extended for Entering Fowls.  
Mrs. Florence Forbes, an A. P. A. judge who has been secured to judge the entries at the Chattanooga Poultry association show, which opens Tuesday at noon, will make a talk upon how to judge the breeds of poultry and what fowls are best and why, in the afternoon on the opening day at the show.

To accommodate the large number of entries which are expected the time when they can be made has been extended and the birds may now be entered any time during Monday. The entry blanks must, however, be returned to the headquarters in the Chamber of Commerce building some time Saturday. On the opening day the building will be thrown open at noon. On the other days of the week the doors will open at 10 in the morning.

The poultry association will meet in regular bi-monthly session at the exhibit building Thursday evening.

## DECEMBER BIG MONTH FOR LOCAL DETECTIVES

MAKE 110 ARRESTS, RE-OVER \$10,626.

Cases Include Auto Thefts, Housebreakers and Liquor Offenders.

December was one of the biggest months the local detective department has had in a long time. More arrests were made and more property recovered than for many months past. The arrests numbered 110, while the value of the property recovered was \$10,626.35.

Capt. N. P. Bush is well pleased with the work of the department for the last month of the year that has just passed into history. A number of important arrests were made during the period in question. Automobile thieves, burglars and housebreakers fared badly, and several of them are well along the court journey that will eventually lead to the penitentiary.

The report of Capt. Bush shows that 115 letters and telegrams were sent to other cities, while 125 letters and telegrams were received and investigated. The amount of property recovered and stolen was \$11,622. The detectives recovered more than

\$10,000 worth of property, which included automobiles, tires, clothing, jewelry, razors and other things. Of the 110 arrests made during the month, 22 were for larceny, 8 for housebreaking and larceny, 8 for transporting whisky and 7 for grand larceny. Three deserters were taken into custody.

The work of the plainclothes department is picking up, and with his efficient staff, Capt. Bush hopes to handle matters in tip-top fashion. His force, now consists of Detectives Marion Perkins and Scott Swafford, Joe Paradiso and Tom Gillespie, Will Light and J. T. Robinson. Tom Williams is the secretary.

Detective George Krug, for years a member of the plainclothes force, has been seriously ill at his home on William street for some time.

FIRE CONSUMES ROOF  
Oglethorpe Fighters Extinguish Camp Fire Consumed the roof of the mess hall at the headquarters of Camp Forrest Friday morning about 11 o'clock, the flames being checked by the arrival of the Fort Oglethorpe fire apparatus.

The cause of the fire was, no doubt, a defect in the construction of the fuel in the kitchen at the end of the hall. It was from this end the fire originated. It was detected before it gained headway and the alarm turned in immediately. The damage was little, the roof of the hall being covered with tar paper.

## DISCUSS ANNEXATION PROJECT NEXT WEEK

CHAMBER OF COMMERCE COMMITTEE ADJOURNS.

Frank Spurlock Aiding Committee in Drafting Acceptable Act.

The meeting of the legislative committee of the chamber of commerce, called for this morning, adjourned until a week from tomorrow, when it will meet with the legislative delegation at a downtown restaurant for lunch and discuss an annexation bill now being drawn by the chamber of commerce subcommittee and Frank Spurlock.

J. Finlay, chairman of the subcommittee, reported this morning that he had asked Mr. Spurlock to assist him in the preparation of a bill which would provide for the annexation of the city and the people, and that due to Mr. Spurlock's absence from the city, he would have nothing to report to this morning's meeting. It was then decided to adjourn until the first time the delegation would be back in Chattanooga, after leaving for Nashville today, and a week from Saturday was the date selected. Mr. Finlay did not indicate along what lines he was working in the

preparation of the bill to annex Chattanooga's suburbs, but he did say that he wanted it understood that he was not "dilly-dallying" any bill, in the sense of having any pet scheme to incorporate, but that as chairman of the committee he was merely trying to work out an act which would satisfy everybody, if such be possible.

FORM TWO NEW CLUBS  
Automobile Organization Has Interesting Meeting.

The Chattanooga Automobile club is planning to attempt the formation of organizations similar to itself in Tullahoma and Shelbyville, the two cities of most consequence on the Dixie highway between Chattanooga and Nashville. Steps leading to this were discussed at Thursday night's meeting.

The club will put on a membership campaign soon similar to that waged last year. The following were appointed members of a committee to make the necessary arrangements: Messrs. Forger, Pope, Graves, Thomas and Deering. Mr. Forger it was carried the campaign to such a successful conclusion last year. At present the membership is about 750. A talk was made by Secretary Robinson, who has just returned from Washington, on the future of motor truck lines in rural highways. He said that the day of short-line railroads is past except for those leading from coal fields, the motor express having proved more economical wherever established.

A totally new viewpoint in regard to the building of good roads has come up. Mr. Robinson said, the roads no longer being considered the end, but rather the means to an end. They are investments, he said, and the town should spend money building good roads leading to it just the same as it does in getting new manufacturers to locate here.

CONTROLLED OUTPUT  
"Big Five" Dominates Live Stock Market by Gigantic Pool.

Washington, Jan. 3.—In one year—1916—the "big five" packers controlled 86 4-10 per cent of the output of the country's twelve principal meat centers, Chairman William H. Colver, of the federal trade commission, testified before the house interstate commerce committee this afternoon. These centers include Chicago, New York, St. Louis, Kansas City and Omaha, he said.

The "big five" not only control virtually all of the meat output of the country, Colver said, but dominated the livestock market by a "gigantic pool" which had its inception in the Veeder-Alberton pool in 1885. "The five big packers virtually have monopoly of the meat markets of the country," he declared.

# Pre-Inventory Sale

## The Sale of the Season---Un-qualified Reductions

Tremendous price-cutting takes place tomorrow, Saturday. This time nothing is reserved. Every Suit, Coat, Dress and Fur has been reduced for quick selling. Our stock is unusually large at this time of the year. With the object in mind to inventory as, small a stock as possible, cost has not been considered. Our sale is of vital significance, in that our regular prices are marked in plain figures at ROCK BOTTOM and only one price all, which spells a LEGITIMATE, RELIABLE, STANDARD VALUE, and when we announce our annual cut-price pre-inventory sale it means REAL REDUCTIONS—ACTUAL SAVINGS OF MANY DOLLARS to purchasers

## Best Suits, \$75 Value for \$35

Includes Velour deLaine, Silvertone, Tricotine, Poirer Twill and best Men'swear Serge, with and without fur trimmings, Pussy Willow fancy linings, in the best models of the season—nothing better anywhere.

## Wonderful \$25 Suits

Fine Men'swear Serges and Poplins, all silk lined, in pretty models suitable for Spring wear.

## Sale Price \$25

## Two Amazing Bargains

The balance of our suit stock, mostly Navy Serges and Poplins, in styles and weights suitable for Spring wear, divided into two lots.

## Sale Price \$14.98 and \$19.85

## Furs Greatly Reduced

Every fur marked down, nothing reserved; greater reductions made on sets. Price marked down for a final closing. Furs for next Fall and Winter will be higher; styles will be the same; it will pay you to anticipate your needs.

Odds and ends in Scarfs, Muffs and Sets, to close at

## \$5.00

We Will Save You from 25% to 33 1/3% on Your Fur Purchases

## Dresses Worth Up to \$35 for \$14.98

A great assortment of Charmeuse, Satin and Men'swear Serges, all this season's make and many not over a week in stock; the greatest values ever offered. Choice of 200 Dresses

## Our Regular \$19.85 Dresses for \$9.98

All-wool French Serges and Satin Dresses of good styles; in all about 75 to choose from. They were \$19.85,

## High-Class Dresses Worth Up to \$50.00 For \$25 and \$29.85

Includes some Serges, but mostly fine Charmeuse of the better kind; a good many are in individual styles, copies of importations. Wonderful value at the prices.

## Finest Dresses Worth Up to \$75 for \$35

Our finest Dresses—call them "French room stock," if you choose—no finer dresses anywhere. Finest Georgettes, Satins and Tricolettes. Worth up to \$75.00,

## TERMS---Cash; No Approvals or Returns

920-922 Market St. **Chas. Rosenthal Co.** The Modern Front

## Finest Coats Worth \$75 for \$45

Includes Velour de Laine, Silvertone and Bolivia, with or without real fur trimmings; every garment lined with silk, mostly fancy Pussy Willow Taffeta; the latest approved models; no better coats at any price.

## Another Great Coat Bargain

100 Coats, about as good as the best, but bought at an under-price recently; the preceding description will apply to this lot also; all beautiful coats to suit the most particular; values up to \$65.00—

## Sale Price \$39.85

## Best Silvertone Coats at \$35

A very special lot of Coats of fine Silvertone, fancy Pussy Willow lining; some Velours in the lot; worth \$60

## Fine Ve'our, Fur-Trimmed Coats at \$29.85

The materials in these coats are as good as the best, trimmed with real fur, which is worth nearly the price of the entire coat; lined with Sol Satin, guaranteed for five years.

## All Wool Velour Fur-Trimmed Coats at \$25

All-wool Velour, but some Broadcloth and Silvertones in the lot, with or without fur trimming, all lined with Sol Satin, guaranteed, and some in Poidecene; worth up to \$40.00.

## Two Big Coat Bargains

Balance of Coats of All-wool Velour, Pom-Pom and Fancy Plushes, with or without fur trimming, divided into two lots at

## \$14.98 and \$19.85

## Big Bargains in Children's Coats

One lot of Coats for Children to close out at only ..... \$4.98  
Two lots of Coats for Children to close out at only ..... \$4.98 and \$3.98

## Milinery Department

Choice of our best Trimmed Hats, values to \$18.50,  
**Saturday, \$5.00**

Choice of our best Shapes, values up to \$5.00,  
**Saturday, \$1.00**

## Bracelet Watch

\$25.00

—A 14K. solid gold watch and bracelet; reliable movement; guaranteed to give satisfactory service.



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D. & H. SYSTEM LUNICOM—A Tonic for your entire system. For Stomach, Liver, Kidneys, Constipation, Indigestion, Cold, Laziness, Ill-humor, Headaches, Dizziness, Chills and Fever.

It's different. Try it.

At your druggist's, 50 cents.